



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF BUILDING & CIVIL ENGINEERING
UNIVERSITY EXAMINATION FOR:
BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING
TVC 4410: SOLID WASTE MANAGEMENT AND TREATMENT

PAPER 1

END OF SEMESTER EXAMINATION

SERIES: APRIL 2025

TIME: 2 HOURS

DATE:

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of five questions.

Attempt question ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

QUESTION ONE (COMPULSORY) 20 Marks

(a) Outline at least FIVE Sources of Solid Waste (10 Marks)

(b) Outline at least FIVE Effects of Poor Solid Waste Management (10 Marks)

ANSWER ANY TWO QUESTIONS FROM THIS SECTION

QUESTION TWO (20 Marks)

Outline the FIVE Components of solid waste management (20 Marks)

QUESTION THREE (20 Marks)

With aid of a sketch discuss the use of Integrated Solid Waste Management Hierarchy in solid waste management (20 Marks)



QUESTION FOUR (20 Marks)

- (a) Outline the key design Components of a land fill (17 Marks)
- (b) Briefly outline the purpose of liners in the construction of municipal solid waste sanitary landfills (3 Marks)

QUESTION FIVE (20 Marks)

Outline the advantages and disadvantages of solid Waste Incineration (20 Marks)